
**Nastavljivi sistemi za električni pogon - 5-2 del: Varnostne zahteve - Funkcijske -
Dopolnilo 1**

Amendment 1 - Adjustable speed electrical power drive systems - Part 5-2: Safety requirements - Functional

Elektrische Leistungsantriebssysteme mit einstellbarer Drehzahl - Teil 5-2:
Anforderungen an die Sicherheit – Funktionale Sicherheit

Entraînements électriques de puissance à vitesse variable - Partie 5-2: Exigences de
sécurité - Fonctionnelle

Ta slovenski standard je istoveten z: EN 61800-5-2:2017/prA1:2026

ICS:

13.110	Varnost strojev	Safety of machinery
29.200	Usmerniki. Pretvorniki. Stabilizirano električno napajanje	Rectifiers. Convertors. Stabilized power supply

SIST EN 61800-5-2:2017/oprA1:2026 en,fr,de

Sample Document

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22G/532/CDV

COMMITTEE DRAFT FOR VOTE (CDV)

PROJECT NUMBER: IEC 61800-5-2/AMD1 ED2	
DATE OF CIRCULATION: 2026-02-27	CLOSING DATE FOR VOTING: 2026-05-22
SUPERSEDES DOCUMENTS: 22G/479/CD, 22G/524/CC	

IEC SC 22G : ADJUSTABLE SPEED ELECTRIC POWER DRIVE SYSTEMS (PDS)	
SECRETARIAT: United States of America	SECRETARY: Mr Christopher Johnson
OF INTEREST TO THE FOLLOWING COMMITTEES:	HORIZONTAL FUNCTION(S):
ASPECTS CONCERNED: Safety	
<input checked="" type="checkbox"/> SUBMITTED FOR CENELEC PARALLEL VOTING	<input type="checkbox"/> NOT SUBMITTED FOR CENELEC PARALLEL VOTING
<p>Attention IEC-CENELEC parallel voting</p> <p>The attention of IEC National Committees, members of CENELEC, is drawn to the fact that this Committee Draft for Vote (CDV) is submitted for parallel voting.</p> <p>The CENELEC members are invited to vote through the CENELEC online voting system.</p>	

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TITLE:

Amendment 1 - Adjustable speed electrical power drive systems - Part 5-2: Safety requirements - Functional

PROPOSED STABILITY DATE: 2031

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

ADJUSTABLE SPEED ELECTRICAL POWER DRIVE SYSTEMS -**Part 5-2: Safety requirements – Functional
Amendment 1**

FOREWORD

This amendment has been prepared by subcommittee SC 22G: Adjustable speed electric drive systems incorporating semiconductor power converters, of IEC technical committee 22: Power electronic systems and equipment.

The text of this amendment is based on the following documents:

Draft	Report on voting
XX/XX/FDIS	XX/XX/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this amendment is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/standardsdev/publications.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

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ADJUSTABLE SPEED ELECTRICAL POWER DRIVE SYSTEMS

Part 5-2: Safety requirements – Functional Amendment 1

1 Scope

Delete the last bullet point of the list headed "This part of IEC 61800 does not specify requirements for:":

- security aspects (e.g., cyber security or PDS(SR) security of access)

2 Normative references

Add the following entry:

IEC TS 63074:2023, *Safety of machinery – Security aspects related to functional safety of safety-related control systems.*

Add to the following entries the actual revision (year in bold font) of the named standards:

IEC 60204-1:**2021**, *Safety of machinery – Electrical equipment of machines – Part 1: General requirements*

IEC 61000-4-6:**2023**, *Electromagnetic compatibility (EMC) – Part 4-6: Testing and measurement techniques – Immunity to conducted disturbances, induced by radio-frequency fields*

IEC 61800-1:**2021**, *Adjustable speed electrical power drive systems – Part 1: General requirements – Rating specifications for low voltage adjustable speed DC power drive systems*

IEC 61800-5-1:**2022**, *Adjustable speed electrical power drive systems – Part 5-1: Safety requirements – Electrical, thermal and energy*

ISO 13849-1:**2023**, *Safety of machinery – Safety-related parts of control systems – Part 1: General principles for design*

Replace the entries of the respective standards by:

IEC 61000-4-3:2020, *Electromagnetic compatibility (EMC) – Part 4-3: Testing and measurement techniques – Radiated, radio-frequency, electromagnetic field immunity test*

IEC 61000-4-34:2005, *Electromagnetic compatibility (EMC) – Part 4-34: Testing and measurement techniques – Voltage dips, short interruptions and voltage variations immunity tests for equipment with input current more than 16 A per phase*

IEC 61000-4-34:2005/AMD1:2009

IEC 61400-21-1:2019, *Wind energy generation systems - Part 21-1: Measurement and assessment of electrical characteristics - Wind turbines*